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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/074,752	02/13/2002	Kieth G. Spitler	Mo6806/MD-99-39B-PU	9963
15?	7590 03/15/2005		EXAMINER	
BAYER MATERIAL SCIENCE LLC 100 BAYER ROAD			COONEY, JOHN M	
PITTSBURGH, PA 15205			ART UNIT	PAPER NUMBER
	•		1711	

DATE MAILED: 03/15/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

## Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on November 18<sup>th</sup> 2004 has been entered.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1 and 4-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cioca et al.(4,380,474) in view of Markusch et al.(3,965,051).

Cioca et al. discloses preparations of polyurea composites prepared from isocyanates having NCO group contents and functionalities as claimed, water, and additive materials under heated molding/shaping conditions which read on the work-up conditions claimed (see column 2 line 11 – column 4 line 32, the examples, as well as, the entire document). Though the specifics of viscosities of isocyanates are not referred to by Cioca et al., such is not seen to be an element of distinction because owing to the

overall similarities between the described features disclosed this additional element is seen to be inherent to Cioca et al.'s disclosure.

Cioca et al. does differ from the claims in that it does not specifically recite hollow spheres as a potential additive. However, Markusch et al. ('051) (see column 9 lines 19-60, as well as, the entire document) discloses the interchangeable usage of inorganic beads and wood chips/dust in the making of closely related isocyanate-based article formations. Accordingly, it would have been obvious for one having ordinary skill in the art to have interchangeably employed the inorganic beads of Markusch et al. in place of the wood flakes/dust of Cioca et al. as motivated by the reasonable expectation that they will behave comparably in order to arrive at the products and processes of applicants' claims with the expectation of success in the absence of a showing of new or unexpected results. It is prima facie obvious to substitute equivalents, motivated by the reasonable expectation that the respective species will behave in a comparable manner or give comparable results in comparable circumstances. In re Ruff 118 USPQ 343; In re Jezel 158 USPQ 99; the express suggestion to substitute one equivalent for another need not be present to render the substitution obvious. In re Font, 213 USPQ 532.

The following are set forth in light of applicants' amendments to the existing claims, insertions of new claims, and arguments set forth on submission of this continued examination request.

The following is taken from MPEP 2111.03:

The transitional phrase "consisting essentially of" limits the scope of a claim to the specified materials or steps "and those that do not materially affect the basic and novel characteristic(s)" of the claimed invention. In re Herz, 537 F.2d 549, 551-52, 190 USPQ 461, 463 (CCPA 1976) (emphasis in original) (Prior art hydraulic fluid required a dispersant which appellants argued was excluded from claims limited to a functional fluid "consisting essentially of" certain components. In finding the claims did not exclude the prior art dispersant, the court noted that appellants' specification indicated the claimed composition can contain any well-known additive such as a dispersant, and there was no evidence that the presence of a dispersant would materially affect the basic and novel characteristic of the claimed invention. The prior art composition had the same basic and novel characteristic (increased oxidation resistance) as well as additional enhanced detergent and dispersant characteristics.). "A consisting essentially of' claim occupies a middle ground between closed claims that are written in a consisting of' format and fully open claims that are drafted in a comprising' format." PPG Industries v. Guardian Industries, 156 F.3d 1351, 1354, 48 USPQ2d 1351, 1353-54 (Fed. Cir. 1998). See also Atlas Powder v. E.I. duPont de Nemours & Co., 750 F.2d 1569, 224 USPQ 409 (Fed. Cir. 1984); In re Janakirama-Rao, 317 F.2d 951, 137 USPQ 893 (CCPA 1963); Water Technologies Corp. vs. Calco, Ltd., 850 F.2d 660, 7 USPQ2d 1097 (Fed. Cir. 1988). For the purposes of searching for and applying prior art under 35 U.S.C. 102 and 103, absent a clear indication in the specification or claims of what the basic and novel characteristics actually are, "consisting essentially of" will be construed as equivalent to "comprising." See, e.g., PPG, 156 F.3d at 1355, 48 USPQ2d at 1355 ("PPG could have defined the scope of the phrase consisting essentially of for purposes of its patent by making clear in its specification what it regarded as constituting a material change in the basic and novel characteristics of the invention."). See also > AK Steel Corp. v. Sollac, 344 F.3d 1234, 1240-41, 68 USPQ2d 1280, 1283-84 (Fed. Cir. 2003) (Applicant's statement in the specification that "silicon contents in the coating metal should not exceed about 0.5% by weight" along with a discussion of the deleterious effects of silicon provided basis to conclude that silicon in excess of 0.5% by weight would materially alter the basic and novel properties of the invention. Thus, "consisting essentially of" as recited in the preamble was interpreted to permit no more than 0.5% by weight of silicon in the aluminum coating.); In re Janakirama-Rao, 317 F.2d 951, 954, 137 USPQ 893, 895-96 (CCPA 1963). If an applicant contends that additional steps or materials in the prior art are excluded by the recitation of "consisting essentially of," applicant has the burden of showing that the introduction of additional steps or components would materially change the characteristics of applicant's invention. In re De Lajarte, 337 F.2d 870, 143 USPQ 256 (CCPA 1964). See also Ex parte Hoffman, 12 USPQ2d 1061, 1063-64 (Bd.

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Pat. App. & Inter. 1989) ("Although consisting essentially of is typically used and defined in the context of compositions of matter, we find nothing intrinsically wrong with the use of such language as a modifier of method steps. . . [rendering] the claim open only for the inclusion of steps which do not materially affect the basic and novel characteristics of the claimed method. To determine the steps included versus excluded the claim must be

read in light of the specification. . . . [I]t is an applicant's burden to establish that a step practiced in a prior art method is excluded from his claims by consisting essentially of language.").

Applicants' arguments have been considered regarding the language "consisting essentially". However, for purposes of considering prior art, as indicated in the citation set forth above, the instant employment of the terminology "consisting essentially" has been treated as "comprising". Further, regarding the first use of "consisting essentially", applicants have not provided any evidence supported by the instant disclosure which establishes additional method operations which would materially affect the basic and novel characteristics of the claimed methods. Regarding the second employment of "consisting essentially", this limitation is only defining of component (A), and the entire scope of the claim is open to inclusion of other elements beyond those recited by the claims. Here, again, it is reiterated that applicants' supporting disclosure does not establish additional elements which would materially affect the basic and novel characteristics of the claimed invention, and the factual record has not established, to the degree required, that elements from the combination of references set forth above would materially affect the basic and novel characteristics of the claimed invention.

Further, regarding applicants' arguments pertaining to the employment of additives and presence of chrome shavings in the prior art, examiner maintains that the combination of references as indicated above is proper. Cioca et al. indicates that "sawdust, woodchips and the like" may be added if desired" (see again column 3 lines 57-58). Markusch et al. discloses that they are interchangeably useful for their additive effects (see again, for example, column 9 lines 56-57, and the entire teaching). The substitution alleged to have been obvious in the above rejection is that of sawdust/woodchips with inorganic hollow beads rather than the substitution of chrome shavings with inorganic hollow beads. The prima facie case of obviousness, as set forth above, is maintained to be proper, and a showing of new or unexpected results commensurate in scope with the scope of the claims has not been demonstrated.

The following argument was set forth in the Final rejection of 8-18-04 and is seen to still apply:

Cioca et al. indicates the utilization of water for reaction with isocyanate, and that water is provided for through the leather scrap employed, water added as in example 3, and ambient moisture in the air. Examiner maintains water to be provided for to the degree necessary to meet this limitation in the claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John Cooney whose telephone number is 571-272-1070. The examiner can normally be reached on M-F from 9 to 6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Seidleck, can be reached on 571-272-1078. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JOHN M. COONEY, JR. PRIMARY EXAMINER

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